



RAYSTAR

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RFF500F-AYW-DNS

General Specifications

- Size : 5.0 inch
- Dot Matrix: 800× 3(RGB) × 480 dots
- Module dimension : 120.7(W) ×75.8(H) ×4.3 mm
- Active area : 108(W) ×64.8 (H) mm
- Pixel pitch : 0.135(W) ×0.135(H) mm
- LCD type : TFT, Normally Black, Transmissive
- View Direction : 80/80/80/80 (IPS)
- Aspect Ratio : 5:3
- Driver IC : ST7262
- Interface : 24 bit R.G.B.
- Backlight Type : LED ,Normally White
- Touch Panel : Resistive Touch Panel, RTP
- Surface : Anti-Glare

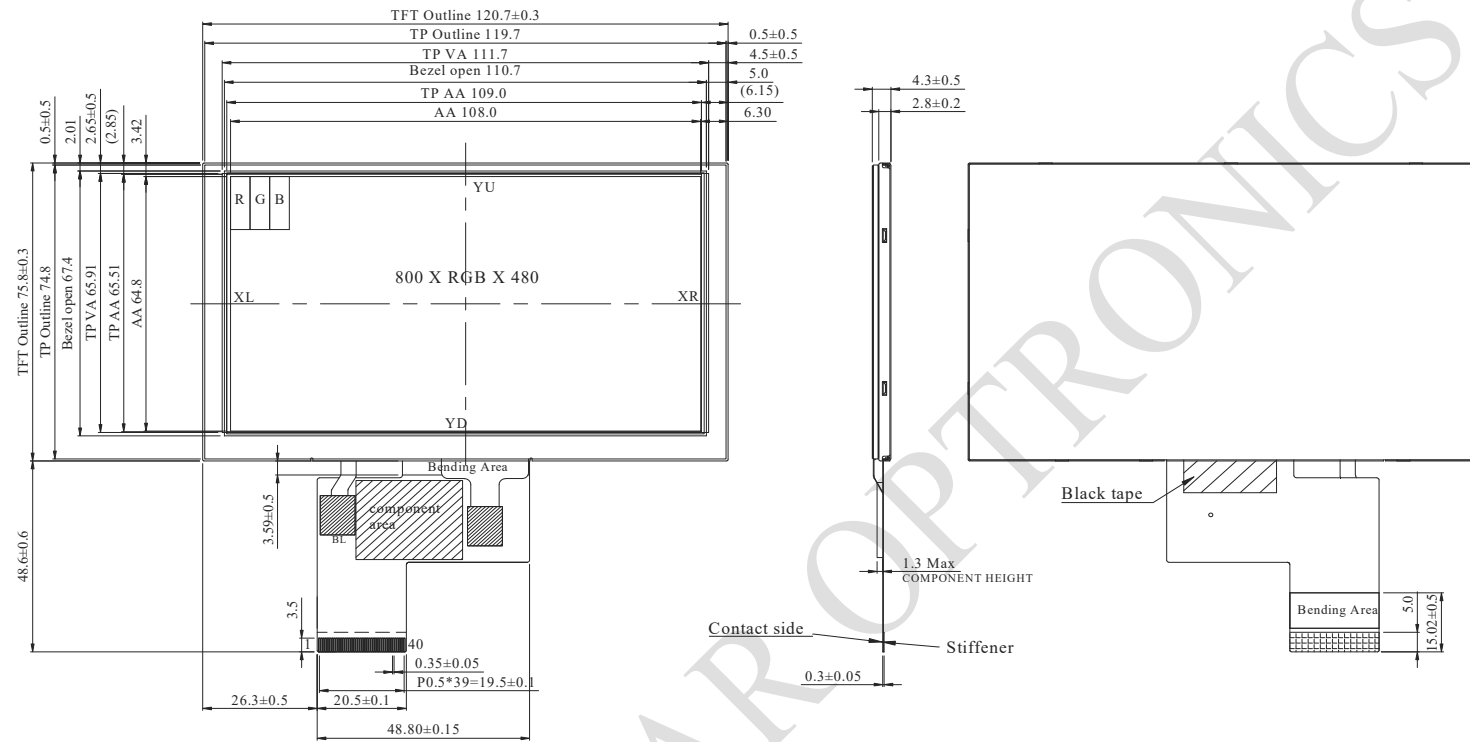
Interface

LCM PIN Definition

Pin	Symbol	Function
1	VLED-	Power for LED backlight (Cathode)
2	VLED+	Power for LED backlight (Anode)
3	GND	Power Ground
4	VDD	Power voltage
5	R0	Red data (LSB)
6	R1	Red data
7	R2	Red data
8	R3	Red data
9	R4	Red data
10	R5	Red data
11	R6	Red data
12	R7	Red data(MSB)
13	G0	Green data(LSB)
14	G1	Green data
15	G2	Green data
16	G3	Green data
17	G4	Green data
18	G5	Green data
19	G6	Green data
20	G7	Green data(MSB)
21	B0	Blue data(LSB)
22	B1	Blue data
23	B2	Blue data
24	B3	Blue data
25	B4	Blue data
26	B5	Blue data
27	B6	Blue data
28	B7	Blue data(MSB)
29	GND	Power Ground
30	CLK	Sample clock

31	DISP	Display on/off
32	NC	No connection
33	NC	No connection
34	DE	Data input enable
35	NC	No connection
36	GND	Power Ground
37	XR	Right electrode
38	YD	Bottom electrode
39	XL	Left electrode
40	YU	Top electrode

Contour Drawing



PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	V _{LED-}	21	B0
2	V _{LED+}	22	B1
3	GND	23	B2
4	V _{DD}	24	B3
5	R0	25	B4
6	R1	26	B5
7	R2	27	B6
8	R3	28	B7
9	R4	29	GND
10	R5	30	CLK
11	R6	31	DISP
12	R7	32	NC
13	G0	33	NC
14	G1	34	DE
15	G2	35	NC
16	G3	36	GND
17	G4	37	XR
18	G5	38	YD
19	G6	39	XL
20	G7	40	YU

The non-specified tolerance of dimension is ± 0.3 mm .

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

Electrical Characteristics

Typical Operation Conditions

Item	Symbol	Values			Unit
		Min.	Typ.	Max.	
Power voltage	VDD	3.1	3.3	3.6	V
Current for Driver(Black)	IDD	-	65	97.5	mA
Input logic high voltage	VIH	0.7 VDD	-	VDD	V
Input logic low voltage	VIL	0	-	0.3 VDD	

Backlight Driving Conditions

Item	Symbol	Values			Unit
		Min.	Typ.	Max.	
Voltage for LED backlight	VL	16.8	19.2	20.4	V
Current for LED backlight	IL	--	60	--	mA
LED life time	-	--	50,000	-	Hr